

PATENT Attorney Docket No. 01064.0011-08-000 Customer Number 34,986

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:	)
Richard LEVY	)
Serial No.: 10/614,114	) Group Art Unit: 1774
Filed: July 7, 2003	) Examiner: Jill M. Gray
For: SUPERABSORBENT POLYMER COMPOSITIONS ON A SUBSTRATE (AS AMENDED)	) ) )

# INFORMATION DISCLOSURE STATEMENT PURSUANT TO 37 C.F.R. §§ 1.56 and 1.97(b)

Commissioner for Patents P. O. Box 1450 Alexandria, Virginia 22313-1450

Sir:

Pursuant to 37 C.F.R. §§ 1.56 and 1.97(c), applicant brings to the attention of the Examiner the documents listed on the attached Form PTO 1449 (six sheets). This Information Disclosure Statement is being filed after the events recited in Section 1.97(b) but, to the undersigned's knowledge, before the mailing date of either a Final action, Quayle action, or a Notice of Allowance. Under the provisions of 37 C.F.R. § 1.97(c) this Information Disclosure Statement is accompanied by PTO Form 2038 for payment of the fee of \$180.00 as specified by Section 1.17(p).

The documents show <u>inter alia</u>, categories of lubricants known to the skilled artisan prior to June 7, 1995, the parent application that forms the basis for the present application.

# Class 508, Subclass 123, lubricant alloys or elemental metals:

Gardos et al. U. S. Patent No. 4,376,710, lubricants comprising alloys of,

Ga / In / WSe<sub>2</sub>

Mo / Nb / Cu / MoS<sub>2</sub>

MoS<sub>2</sub> / Ta<sub>2</sub>.

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Lemmer U.S. Patent No. 4,050,932, lubricants comprising copper alloys.

## Class 508, Subclass 121, boron or silicon containing lubricants:

Oldiges et al. U.S. Patent No. 5,536,422, lubricants comprising carbonate, boron nitride, silicate, and acetate compounds.

Otake et al. U.S. Patent No. 4,765,917, lubricants comprising carbonate, borate, and boron nitride.

Jain et al. U.S. Patent No. 4,104,178, lubricants comprising sodium bicarbonate, sodium pentaborate, and sodium molybdate.

Jain et al. U.S. Patent No. 3,983,042, lubricants comprising sodium bicarbonate, sodium pentaborate, and sodium molybdate.

#### Class 508, Subclass 124, silicon containing lubricants:

Oldiges U.S. Patent No. 5,093,015, lubricants comprising copper or alloys thereof, calcium carbonate or Al, Sb, Vd, W or Ni.

Rodriguez U.S. Patent No. 4,363,737, lubricants comprising boron nitrite, boron nitrate, and titanium dioxide.

### Class 508, Subclass 129, lubricants with inorganic compounds:

Lum et al. U.S. Patent No. 5,468,401, lubricants comprising dibutyltin carbonate and boron nitride.

Rao et al. U.S. Patent No. 5,363,821, lubricants comprising boron nitride.

Swazaki et al. U.S. Patent No. 5,346,634, lubricants comprising sodium polycarbonate, CaCO<sub>3</sub>, BN<sub>3</sub>, SnO, PbO, ZnO, CaO, CuO, and Al<sub>2</sub>O<sub>3</sub>.

Whe et al. U.S. Patent No. 5,269,953, lubricants comprising graphitic oxide.

Jacobs U.S. Patent No. 5,049,289, lubricants comprising CaO, MgO, ZnO, CaCO<sub>3</sub>, MgCO<sub>3</sub>, and ZnCO<sub>3</sub>.

King U.S. Patent No. 4,965,001, lubricants comprising antimony trioxide, antimony tetroxide, antimony pentoxide, and lead oxide.

Mendelson et al. U.S. Patent No. 4,909,951, lubricants comprising calcium thiocarbonate, calcium trithiocarbonate, and calcium tetrathiocarbonate.

Dumdum et al. U.S. Patent No. 4,908,142, lubricants comprising calcium thiocarbonate, calcium trithiocarbonate, and calcium tetrathiocarbonate.

Periard et al. U.S. Patent No. 4,575,430, lubricants comprising boron nitride.

Tubbs et al. U.S. Patent No. 4,557,839, lubricants comprising  $Sb_2O_3$ .

Jain et al. U.S. Patent No. 4,287,073, lubricants comprising sodium bicarbonate, sodium pentaborate, and sodium molybdate.

Spiegleberg U.S. Patent No. 4,096,076, lubricants comprising cobalt oxide, and diboron trioxide.

Burgess et al. U.S. Patent No. 3,931,020, lubricants comprising sodium nitrite, sodium nitrate, potassium nitrate and zinc oxide.

#### Class 508, Subclass 150, Jubricant alloys or metals:

Rao et al. U.S. Patent No. 5,663,124, low alloy steel powders with solid lubricant properties, e.g., alloys of Fe, Mn, Ni, Cu, and, C.

Strumban U.S. Patent No. 5,523,006, lubricants comprising Cu, Ni, Sn and Cu, Ni,

Sn, Zn alloy.

Weischel et al. U.S. Patent No. 5,397,485, lubricants comprising alloy particles of Pb/Cu, Pb/Cu/Zn or Sn or other metals.

Sugimara et al. U.S. Patent No. 5,013,464, lubricants comprising Ga or alloys of Ga with at least one of In, Zn, Sn, or Al.

Buran et al. U.S. Patent No. 4,756,841, lubricants comprising a coating of Ni/CrC or Mo/Ni alloy and at least one of Cr, CrC or MoC.

Jamison U.S. Patent No. 4,647,386, lubricants comprising Nb, Ta or W or alloy thereof with at least one of Cr, Vd, Mo, W or Fe.

Palmer U.S. Patent No. 4,541,984, lubricants comprising a coating of alloys of Zr, Yt, Ti, Ce, Co, Ni, Cr and compounds or mixtures thereof.

Hurst U.S. Patent No. 4,076,637, lubricants comprising alloy powders based on Sn, Bi Cd, Pb, In or Ga.

Burke U.S. Patent No. 3,994,697, lubricants comprising metal alloys for combining with MoS<sub>2</sub> for lubricating an engine.

De Hart et al. U.S. Patent No. 3,939,081, lubricants comprising a chrome alloy of carbon steel.

#### Class 508, Subclass 154, lubricant inorganic compounds:

Forster U.S. Patent No. 5,507,961, lubricants comprising coatings of Cs, MoO<sub>4</sub>, SO<sub>4</sub>, WO<sub>3</sub>, or MoO<sub>3</sub>, and CsOH.

#### Class 508, Subclass 178, lubricant metal oxide compounds:

Kojima U.S. Patent No. 5,156,756, lubricants comprising SnO and/or TiO<sub>2</sub> powder.

#### Class 508, Subclass 180, lubricant carbonate compounds:

Waynick U.S. Patent No. 4,986,923, lubricants comprising Group IA or Group IIA carbonates in grease.

Nader et al. U.S. Patent No. 5,456,848, lubricants comprising cesium carbonate.

Olsen et al. U.S. Patent No. 5,308,514, lubricants comprising calcium carbonate.

Ito et al.U.S. Patent No. 5,244,587, lubricants comprising calcium carbonate.

Chiddick et al. U.S. Patent No. 5,173,204, lubricants comprising calcium carbonate, magnesium carbonate and lead carbonate.

Waynick U.S. Patent No. 5,158,694, lubricants comprising Group IA or Group IIA carbonates.

Wainright U.S. Patent No. Re 31,611, lubricants comprising Group IIA carbonates.

Sternlieb U.S. Patent No. 4,143,423, lubricants comprising sodium, or potassium carbonate, citrate, acetate, bicarbonate, trihydrate, and citrate dihydrate.

This submission does not represent that a search has been made or that no better art exists and does not constitute an admission that each or all of the listed documents are material or constitute "prior art." If the Examiner applies any of the documents as prior art against any claims in the application and applicant determines that the cited documents do not constitute "prior art" under United States law, applicant reserves the right to present to the office the relevant facts and law regarding the appropriate status of such documents.

Applicant further reserves the right to take appropriate action to establish the patentability of the disclosed invention over the listed documents, should one or more of the documents be applied against the claims of the present application.

Respectfully submitted,

THE LAW OFFICES OF ROBERT J. EICHELBURG

Dated: September 1, 2005

By: Robert J. Eichelburg, Reg. No. 23,057

## CERTIFICATE OF MAILING PURSUANT TO 37 C.F.R. § 1.8

I hereby certify that this correspondence, including the attached six sheets of PTO Form 1449, and PTO Form2038 for the payment of the 37 C.F.R. § 1.17 (p) fee of \$180.00 is being mailed pursuant to 37 C.F.R. § 1.8 to The Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450 on the date indicated below.

Dated: September 1, 2005

Robert J. Eichelburg Reg. No. 23.0

RM PTO-1449 Page 1 of 6					ATTY. DOCKET NO. 01064.0011-0-000		Ser.No. 10/614,114		
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*Examiner's Initials		DOCUMENT NUMBER	DATE	NAME		CLASS	SUB- CLASS	FILING IF APPR	DATE, OPRIATE
	US	4,376,710	3/15/83	Gardos	et al.	508	123		
	US	4,050,932	9/27/77	Lemme	r	508	123		
	us	4,765,917	8/23/88	Otaki et al.		508	121		
	us	4,104,178	8/1/78	Jain et al.		508	121		
	us	3,983,042	9/28/76	Jain et al.		508	121		
	US	5,093,015	3/3/92	Oldiges Rodriguez		508	124		
	US	4,363,737	12/14/82			508	124		
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FORM PTO-1449 Page 2 of 6					ATTY. DOCKET N 01064.0011-0800		Ser. No.	. 10/614,11	4		
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	(L	Jse several sheets it	f necessary)		FILING DATE July 7, 2003		GROUP ART UNIT 1714				
*Examiner's Initials	DOCUMENT DATE NUMBER		DATE	NAME	NAME		SUB- CLASS				
	US	5,437,802	8/1/95	Kurash	ıi et al.	508	129				
	US	5,363,821	11/15/94	Rao et	al.	508	129				
	US	5,346,634	9/13/94	Sawaz	aki et al.	508	129				
	US	5,269,953	12/14/93	Whewe	əll	508	129				
	us	5,049,289	1/19/93	Jacobs	Jacobs King		129				
	us	4,965,001	10/23/90	King			129				
	US	4,909,951	3/20/90	Mendelson et al.  Dumdum et al.  Periard et al.		508	129				
	us	4,908,142	3/13/90			508	129				
	US	4,575,430	3/11/86			508	129				
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11	NFORM	MATION DISCLOSI	URE STATEMENT		APPLICANT Richard LEVY					
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*Examiner's Initials		DOCUMENT NUMBER	DATE	NAME Tubbs et al. Jain et al.		CLASS	SUB- CLASS		DATE, OPRIATE	
	US	4,557,839	12/10/85			508	129	7.5		
	US	4,287,073	9/1/81			508	129			
	US	4,096,076	6/20/78	Spiegle	eberg	508	129			
				Weischel et al. Sugimura et al. Buran et al. Jamison Palmer		508	150			
	US	5,397,485	3/14/95							
	US	5,013,464	6/12/89			508	150			
	US	4,756,841	7/12/88			508	150			
	US	4,647,386	3/3/87			508	150	-		
	US	4,5,41,984	9/17/85			508	150			
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FORM PTO-1449 Page 4 of 6					ATTY. DOCKET NO. 01064.0011-08-000 Ser. No. 10/614,114						
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	DOCUMENT NUMBER	DATE	NAME Hurst Burke DeHart et al.		CLASS	SUB- CLASS	FILING DATE, IF APPROPRIAT				
US	4,076,637	2/28/78			508	150					
US	3,994,697	11/30/76			508	150					
US	3,939,081	11/20/76			508	150					
US	5,156,756	10/20/92	Kojima		508	178					
US	5.456.848	10/10/95	Nader et al. Olson et al. Ito et al. Chiddick et al.		508	180					
US	5,308,514	5/3/94			508	180					
US	5,244,587	9/14/93			508	180					
us	5,173,204	12/22/92			508	180					
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FORM PTO-1449 Page 5 of 6					ATTY. DOCKET NO. 01064.0011-08-000 Ser. No. 10/614,114				4	
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	us	5,158,694	2/28/78	Hurst		508	150			
	US	3,994,597	11/30/76	Burke		508	150			
	US	5,156,756	10/20/92	Kojima		508	178			
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	US	5,308,514	5/3/94	Olson		508	180	<u> </u>		
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	US	5,158,694	10/27/94	Waynid	ck	508	180			
	us	RE 31,611	6/26/84	34 Wainright		508	180			
	US	4,143,423	3/13/79	Steinlie	eb	508	180			
	US	4,986,923	1/22/91	Waynick		508	180			
	US 4,340,706 July ,1982 Obayashi e		shi et al.	526	207	```				
	US	4,977,192	Dec., 1990	Martineu et al. Johnson		521	56			
	US	5,275,760	Jan., 1994			252	389.61			
	US	5,792,717	92,717 Aug., 1998 Takayama		ıma	501	88			
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*Examiner's Initials		DOCUMENT NUMBER	DATE	COUNTRY		CLASS	SUB- CLASS	TRANS YES	LATION NO	
		OTHER IN	ORMATION (Includin	ng Author,	Title, Date, Pertiner	nt Pages, E	tc.)			
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